Serial No. 10/593,882 PU040085

Listing and Amendments to the Claims

1. (Original) A method for use in a receiver, the method comprising:

processing a received signal with a phase-locked loop (PLL);

generating a carrier frequency offset estimate as a function of a phase error signal of the PLL; and

detecting a false lock condition as a function of comparing the carrier frequency offset estimate to a closed loop value of the PLL.

- (Original) The method of claim 1, wherein the processing step includes the step of setting the PLL in an open loop mode of operation.
- 3. (Original) The method of claim 1, wherein the generating step includes the steps of:

determining a rollover count value for the phase error signal;

determining a symbol count value of the received signal; and

generating the carrier frequency offset estimate from the determined rollover count value and determined symbol count value.

- (Original) The method of claim 1, further comprising the step of updating the PLL with the carrier frequency offset estimate.
 - 5. (Original) A receiver comprising:
 - a carrier tracking loop (CTL) for processing a received signal; and
- a processor for estimating a carrier frequency offset as a function of a phase error signal of the CTL;

wherein the processor detects a false lock condition as a function of comparing the estimate of the carrier frequency offset to a closed loop value of the CTL. Serial No. 10/593,882 PU040085

(Original) The receiver of claim 5, wherein the CTL includes a rollover counter and a symbol counter accessible by the processor for use in estimating the carrier frequency offset.

7. (Original) The apparatus of claim 5, wherein the receiver is a set-top box.

Cancel claim 8.